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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/601,746	06/23/2003	Chang-Hyeon Lee	050324-1322	8986	
24504	7590 02/04/2005		EXAMINER		
THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP 100 GALLERIA PARKWAY, NW			CUNNINGHAM, TERRY D		
STE 1750		ART UNIT	PAPER NUMBER		

DATE MAILED: 02/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

···		Applicati	on No.	Applicant(s)			
Office Action Summary		10/601,74	46	LEE ET AL.			
		Examiner		Art Unit			
			Cunningham	2816	-		
Period fo	The MAILING DATE of this communication Reply	on appears on the	o cover sheet with the c	orrespondence address			
THE i - Exte after - If the - If NC - Failu - Any i	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICATION of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days a period for reply is specified above, the maximum statutory are to reply within the set or extended period for reply will, by reply received by the Office later than three months after the end patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no evolution. s, a reply within the state of period will apply and with a poly statute. cause the app	ent, however, may a reply be tim utory minimum of thirty (30) days Il expire SIX (6) MONTHS from t lication to become ABANDONE	ely filed will be considered timely. the mailing date of this communication.			
1)	Responsive to communication(s) filed on	n 06 Dagambar W	004				
•	Responsive to communication(s) filed on This action is FINAL . 2b)	_					
3)□	/	This action is no			•		
,—	closed in accordance with the practice un	nder <i>Ex parte Qu</i>	for formal matters, pro ayle, 1935 C.D. 11, 45	secution as to the merits is 3 O.G. 213.			
Dispositi	on of Claims						
	☑ Claim(s) <u>1-15</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
	Claim(s) <u>1-15</u> is/are rejected.						
	Claim(s) is/are objected to.						
	Claim(s) are subject to restriction a on Papers	and/or election re	equirement.				
	•						
	The specification is objected to by the Exa						
10)[2]	10)⊠ The drawing(s) filed on <u>23 June 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
	inder 35 U.S.C. §§ 119 and 120	ine ⊏xaminer. No	te the attached Office .	Action or form PTO-152.			
	••						
a)L	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docured Certified copies of the priority docured Copies of the certified copies of the certif	iments have beei iments have beei	n received. n received in Applicatio	n No.			
* S	application from the International Base the attached detailed Office action for a cknowledgment is made of a claim for dor	Bureau (PCT Rule a list of the certif	e 17.2(a)). ied copies not received	· · · · · · · · · · ·			
sii 37	nce a specific reference was included in the CFR 1.78.	he first sentence	of the specification or	n an Application Data Sheet.			
14)□ A	☐ The translation of the foreign languag cknowledgment is made of a claim for dor ference was included in the first sentence	mestic priority un	der 35 U.S.C. §§ 120 a	and/or 121 since a specific			
Attachment	(s)						
1) Notice 2) Notice	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-94)	·8)	4) Interview Summary (I 5) Notice of Informal Pa	PTO-413) Paper No(s) tent Application (PTO-152)			
3) 🔲 Inform	nation Disclosure Statement(s) (PTO-1449) Paper No		6) Other:	,			

DETAILED ACTION

Summary of changes in this action

I. The amendment overcomes the outstanding indefiniteness.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Park et al. (USPN 5,729,178). Park et al. discloses, in Fig. 8, a circuit comprising: "a pair of differential signal input terminals (V1 and V2)"; "first and second switching transistors (Mc1 and Mc4)"; "third and fourth switching transistors (Mc8 and Mc11)"; "an output stage" having "a first output stage (Mc15 and Mc16)"; "a non-differential output terminal (VCM)"; and "a second output stage (Mc5 and Mc12)", all connected and operating similarly as recited by Applicant.

Examiner has fully considered Applicant's remarks for the above rejection and has not found them to be persuasive. Further, Applicant's remarks are not understood. As seen in Applicant's Fig. 3, for example, the "first output stage" and the "second output stage" are the input to the current mirror 310 and the output of the current mirror 316. This is the same configuration of the reference to Park. Clearly, transistors Mc5 and Mc12 provide an output from the differential stage and transistors Mc15 and Mc16 provide a further inverted current output. Clearly, this configuration will read on the claim recitation.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Art Unit: 2816

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Terry Cunningham whose telephone number is 571-272-1742. The examiner can normally be reached on Monday-Thursday from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TC February 2, 2005 Terry D. Cunningh Primary Examiner

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